

**I. PACNAVFACENGCOM DESIGN REVIEW CHECKLIST and  
PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

**NOTE: THE DESIGN REVIEW AND REDICHECK COORDINATION REVIEW CHECKLISTS THAT FOLLOW ARE TO BE USED ONLY AS A GUIDE. THERE MAY BE OTHER ITEMS NOT LISTED THAT NEED TO BE CHECKED.**

**Revisions:**

**First sheet under the Review Item heading "General":**

- Changed "Contracts Department (Code 02)" to "Acquisition Department (ACQ)".**
- Changed "Code 505" to "Construction 05".**

**Under Specifications, "General," a couple of minor revisions.**

# **I. PACNAVFACENGCOM DESIGN REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

Reviewer's 60% \_\_\_\_\_ Date: \_\_\_\_\_  
Signature: 100% \_\_\_\_\_ Date: \_\_\_\_\_

## Review Item

Yes \* No N/A

### General

1. <b>FACD requirements</b> have been incorporated or addressed as deviations and amicably resolved.			
2. Project <b>within scope and budget</b> , and design <b>satisfies the functional and operational requirements</b> of the proposed facility.			
3. Design <b>conforms to NAVFAC</b> and/or <b>AF criteria</b> .			
4. <b>Drawings</b> conform to design analysis.			
5. Latest <b>lessons learned</b> reviewed and pertinent items incorporated. (Available at <a href="http://www.navfac.navy.mil">http://www.navfac.navy.mil</a> .)			
6. <b>Bid items</b> clearly identified/coordinated with PDE and activity. Written description of each bid item shown on title sheet included in the project, starting with Bid Item 2. Also on each of the sheets that has a bid item identified, a written description of the work associated with the bid item shown on that sheet is included.			
7. Procedures for <b>scheduling utility outages and roadway closures</b> are acceptable to PWC and activity.			
8. <b>Proprietary materials/equipment</b> included in design have been approved by the Acquisition Department (ACQ).			
9. <b>CQC requirements</b> have been discussed with ROICC and PACDIV Construction 05.			
10. <b>Renovation work</b> coordinated with occupants.			
11. Requirements for repair of existing <b>elevators</b> .			
12. <b>Phasing</b> identified/coordinated with PDE and activity.			
13. Signed certification provided with final submittal that project does <b>not</b> include specifications or standards which require the use of <b>Class 1 Ozone Depleting Substances</b> .			
14. <b>Hazardous materials, debris disposal, salvage</b> , etc. addressed.			

\*Note: Provide explanation for "No" responses.

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Review Item

Yes \* No N/A

### General

15. Latest <b>environmental regulations</b> are referenced, especially for <b>asbestos and lead removal</b> .			
16. Limits of <b>asbestos/lead paint removal</b> identified on drawings. Amounts of asbestos removal identified in <b>Section 02220, "Site Demolition"</b> .			
17. All <b>permits</b> applied for/addressed ( <b>trenching, disposal large scale grading/storm drain water run-off, clean air, dredging, PWC sewer connection</b> , etc.)			
18. All <b>permits</b> required and their approval process time has been addressed.			
19. <b>Maintenance review checklist</b> reviewed and incorporated.			
20. <b>Blind vending facilities</b> coordinated with user.			
21. Requirements of <b>handicapped</b> (ADA/UFAS) complied with including completion of 04 signature form.			
22. <b>Wall locker</b> requirements coordinated with user and specifications.			
23. <b>Government property</b> is completely and accurately specified and/or identified.			

\*Note: Provide explanation for "No" responses.

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## **Review Item**

**Yes \* No N/A**

### **Architectural**

1. <b>Floor plans</b> have a modular grid or structural column grid with number and letter coordinates where applicable.			
2. <b>Floor plans</b> have square footage totals identified conforming to project documentation breakdown and NAVFAC MIL-HDBKs/Design Manuals.			
3. <b>Floor heights</b> clearly indicated at changes in floor elevations.			
4. <b>Recessed slabs</b> for floor finishes clearly indicated.			
5. <b>Special finishes</b> such as ceramic tile, seamless epoxy flooring, etc. required. (Terrazzo is subject to deterioration near toilets and urinals in public toilets.)			
6. <b>Floor drains</b> provided in mechanical rooms, garages, laundry rooms, and trash rooms and are floors sloped to these drains.			
7. <b>Construction joints</b> and <b>adequate slopes for drainage</b> are provided for all paved terraces, patios, decks, and sidewalks.			
8. <b>Overflow curbs</b> provided in laundry.			
9. <b>Floor recession dimensions and details</b> provided for tile, masonry, carpet treatment, and <b>floor height dimensions</b> are shown for each level. (Slab, subfloor, and finish floor.)			
10. Adequate provisions are provided at the perimeter and butt perimeter and butt conditions of wood, ceramic tile and quarry tile <b>flooring</b> to allow for expansion and contraction of the flooring material.			
11. <b>Non-slip surfaces</b> are provided at exterior entries, landings, and steps.			
12. <b>Roof drainage</b> details are adequate. Roof drains are not located too close to exterior parapets or structural beams. Existing roof drains are not reused.			
13. Adequate provisions are provided for <b>roof mounted equipment</b> , i.e., flashing, duckboards, service walkways around HVAC units, etc.			
14. <b>Expansion joints</b> are used at appropriate intervals and that they are sufficiently detailed.			

\*Note: Provide explanation for "No" responses.

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Reviewer's	60%		Date:	
Signature:	100%		Date:	

### Review Item

Yes   \* No   N/A

### Architectural

15. <b>Roofing system</b> appropriate.			
16. <b>Flashing</b> provided at appropriate locations and they are adequately detailed.			
17. Appropriate <b>roof gutter</b> materials, sizes, slopes and direction of slopes, screens, expansion joints are provided.			
18. <b>Curbs and parapets</b> have flashing, cant strips, crickets, cap flashing and are they appropriately detailed.			
19. <b>Waterproofing</b> system appropriate and clearly detailed.			
20. Special <b>soundproofing</b> and <b>weatherstripping</b> clearly identified.			
21. <b>Guardrails</b> are provided. (Full height glass walls at entrances are particularly vulnerable also on flat roof perimeters, light wells, atriums, courtyards, and open shafts.)			
22. Verify all <b>fire rated walls</b> .			
23. <b>Large doors</b> or a <b>removable wall section</b> provided for <b>mechanical rooms</b> .			
24. <b>Door openings to toilet or other private facilities</b> are hinged to block direct view into room, otherwise privacy partitions should be provided.			
25. <b>Acoustical treatment</b> required for <b>mechanical rooms</b> and other <b>high noise areas</b> .			
26. <b>Soundproofing/isolation</b> provided around <b>noisy rooms/areas and equipment</b> .			
27. <b>Stairways exits</b> comply with applicable codes and regulations.			
28. Design provides for <b>handicapped</b> persons to utilize facility and restrooms.			

\*Note: Provide explanation for "No" responses.

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### Review Item

Yes \* No N/A

### Architectural

29. <b>Skylights</b> for <b>interior stairwells</b> are protected with wire mesh screens above and below the skylight.			
30. <b>Weepholes</b> are provided through brick.			
31. Check all <b>dimensions</b> critical to <b>cabinet fit</b> and check to see if finished surface dimensions are shown.			
32. <b>Dimensions</b> to <b>finished surfaces, rough surfaces, or rough framing</b> . If mixed, use unique symbols.			
33. <b>Coordination</b> of <b>building design</b> and <b>collateral equipment</b> .			

\*Note: Provide explanation for "No" responses.

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Review Item

Yes \* No N/A

Structural

1. <b>Special design requirements</b> incorporated in the design, i.e. weight handling equipment requirements, etc.			
2. <b>Weight handling equipment</b> (bridge crane, etc.) have sufficient capacity and clearances, such as for servicing the engine generator in power plants.			
3. <b>Design calculations</b> spot checked to insure the correct design procedures have been followed.			
4. Special considerations described in the basis of design such as <b>special inspection</b> are identified in the drawings and specifications.			
5. <b>Design data</b> and <b>assumptions</b> are provided in the basis of design and are shown on the drawings.			
6. <b>Monorail and crane rail</b> sway braces shown where required.			
7. Impact of <b>vibration producing equipment, elevators</b> , etc. considered. <b>Anchorage of structural elements</b> to shear walls, roof, and/or floor diaphragms, etc. are properly detailed.			
8. The correct <b>seismic zone, wind load, and snow load</b> have been used.			
9. The proper <b>live loads</b> have been utilized in the design.			
10. <b>Lateral load resistance</b> system is identified and implemented into the design.			
11. <b>Load path</b> for lateral load resistance from roof to foundation is addressed in the basis of design and shown in the calculations.			
12. <b>Unusual floor loads</b> such as files, safes, or industrial equipment have been considered.			
13. <b>Structural frame connections</b> meet minimum requirements, i.e. minimum two bolts to each member for steel construction.			
14. <b>Foundation pile requirements</b> show pile tip elevations and special pile driving requirements.			

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### Review Item

Yes \* No N/A

### Structural

15. <b>Pile load tests</b> are specified as required in the basis of design.			
16. The <b>foundation conditions</b> are accurately described and the foundation type selection is based on the <b>geotechnical report</b> . Confirm that preparer of geotechnical report has reviewed the plans and specs.			
17. <b>Depressed or raised slabs</b> indicated on the architectural drawings are identified on the structural sheets.			
18. <b>Expansion joint locations</b> coordinated against architectural.			

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## **Review Item**

**Yes \* No N/A**

### **Mechanical**

1. <b>Plumbing design</b> is in compliance with IAPMO, Uniform Plumbing Code and DM-3.01.			
2. <b>Pipe and duct concealment spaces, furring, or chases</b> adequately sized.			
3. <b>Ductwork sizes</b> are indicated.			
4. <b>Mechanical room</b> is adequately sized and safe for equipment maintenance.			
5. Adequate <b>ceiling height</b> exists at worst case duct intersection.			
6. <b>Dampers</b> are indicated at smoke and fire walls.			
7. The basis for <b>mechanical equipment</b> capacity is proper.			
8. Interface between <b>existing and new HVAC control systems</b> shown.			
9. <b>Cold, hot water, storm/sanitary drainage and vents</b> are sized in accordance with the fixture unit method.			
10. There is adequate <b>street water pressure</b> or a <b>pressure booster system</b> has been provided.			
11. <b>Zone pressure reducing stations</b> have been provided? (If water pressure at the fixture exceeds 50 PSIG.)			
12. <b>Water hammer arrestors</b> are provided for quick closing valves. Size on identified drawings to prevent conflict with specifications.			
13. Approved <b>backflow prevention devices</b> are provided between cross-connections of potable and non-potable water systems.			
14. <b>Water piping velocity</b> shall not exceed 10 fps.			
15. <b>Water temperature</b> is in compliance with current NAVFAC guidelines.			
16. Appropriate <b>HW generation system</b> has been selected based on expected demand.			

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Review Item

Yes \* No N/A

## Mechanical

17. <b>HW circulating system</b> is required.			
18. <b>Cooling load calculations</b> are appropriate of criteria for selected, design assumptions, and design methodology used (particularly assumed outdoor and indoor design conditions).			
19. For <b>air conditioned spaces 8,000 SF and larger</b> , load and energy calculations have been performed using an extensive hourly dynamic analysis.			
20. <b>A/C system</b> will operate properly under <b>minimum load situation</b> .			
21. Verify that an appropriate type of <b>ventilation fan</b> is selected.			
22. <b>Industrial ventilation design</b> including calculations is in accordance with the industrial ventilation manual.			
23. <b>Industrial ventilation design</b> has been reviewed by NAVREGMEDCEN Industrial Hygiene Branch.			
24. The <b>power plant</b> net continuous KW capacity meets the required demand at the specific site elevation and temperature.			
25. <b>Engine generator</b> selected for prime power, and the specification includes a compensatory damages clause for excessive fuel consumption and that bid evaluation includes price adjustments for fuel consumption.			

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Review Item

Yes \* No N/A

Electrical

1. <b>Electrical characteristics</b> , such as primary and secondary voltages, number of phases, and available fault current between one line diagram and equipment specified.			
2. <b>Equipment interrupting ratings</b> with revised short circuit calculations.			
3. <b>Panelboard and equipment voltage ratings</b> are consistent with distribution scheme.			
4. <b>Transformer capacity</b> verified with load calculations.			
5. All <b>lighting, power, and equipment loads</b> have been connected.			
6. <b>Voltage drop, lighting, and short circuit calculations</b> are correct.			
7. <b>Technical and utility loads</b> are required to be fed from separate buses for communication-electronic facilities.			
8. <b>Electrical characteristics and ratings of mechanical and utility loads</b> required to be fed from separate buses.			
9. <b>New load requirements</b> coordinated with the proper utility agency.			
10. <b>Elementary control diagrams</b> are correct.			
11. <b>Sufficient working space</b> is provided around each <b>engine generator</b> and within the engine generator room for power plants.			
12. <b>Switchgear rooms</b> have sufficient <b>working space</b> and have sufficient <b>space for expansion</b> .			
13. Provision for future (PFB, spares) in <b>panels and switchboards</b> .			
14. <b>Grounding system</b> fully identified.			
15. <b>Telephone system</b> provided is adequate for the facility.			
16. <b>Telephone requirements</b> coordinated with the proper telephone agency.			
17. <b>LAN system</b> provided is adequate for the facility.			

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### Review Item

Yes \* No N/A

### Electrical

18. <b>New underground ductline system</b> has adequate spares.			
19. <b>Cathodic protection</b> is provided for buried metallic fuel tanks or pipelines or for submerged steel waterfront.			
20. <b>Cathodic protection system</b> provided is adequate for design.			
21. <b>Cable TV system</b> provided is adequate for the facility.			
22. <b>Cable TV requirements</b> coordinated with proper Cable TV agency.			
23. <b>IDS system</b> provided is adequate for the facility.			
24. <b>IDS system requirements</b> coordinated with proper agency.			

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## **Review Item**

**Yes \* No N/A**

### **Site Plan and Civil Sheets**

1. Review to determine that the <b>systems (water, sewer, drainage, roadways, etc.)</b> will, when constructed, perform satisfactorily in performing the intended function. This is an <b>overall look at the systems</b> , not at the various components which make up the system which by themselves are satisfactory yet not work as part of a system.			
2. <b>Soil exploration and soil tests</b> were performed.			
3. <b>Facility location and elevations</b> are adequately tied down.			
4. Adequate <b>vertical and horizontal controls</b> have been provided.			
5. <b>Finish grades</b> provide adequate slope for surface runoff.			
6. Adequate <b>traffic control devices</b> and <b>information guide signs</b> provided.			
7. <b>Connections to water, sewer, and drainage systems</b> have been provided.			
8. <b>Drainage system</b> is adequate and conforms to the design analysis and direction of surface drainage beyond the projects limits is acceptable.			
9. <b>Water supply system</b> , capacity and conditions including the supply/source are adequate.			
10. Domestic and industrial, <b>water supply demands</b> are properly calculated.			
11. <b>Water supply contamination influences</b> have been considered and have been mitigated including providing backflow preventers and adequate separation from sewer lines.			
12. <b>Sewage system</b> capacity and load conditions are adequate for the facility.			
13. <b>Design population, sewage flows, and degree of treatment</b> is proper.			
14. Appropriate <b>type and volume of traffic</b> , controlling <b>wheel loads</b> and <b>configurations</b> were considered for pavement design.			
15. <b>Traffic safety, airfield clearance, and other standards</b> are met.			

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### Review Item

Yes \* No N/A

### Site Plan and Civil Sheets

16. <b>Paving material</b> selection is in compliance with criteria.			
17. <b>Existing paving</b> indicated or identified.			
18. Indicated <b>access roads, haul routes, borrow areas, disposal sites and storage areas</b> are acceptable.			
19. <b>Station security requirements</b> adequately addressed.			
20. Procedures dealing with <b>use of station facilities and utilities</b> adequately identified and covered.			

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### Review Item

Yes \* No N/A

### Specifications

#### General

1. <b>Bidding Information Sheet</b> corresponds to bid item.			
2. Specifications are based on <b>latest NFGS</b> listed in SPECSINTACT Table of Contents of CCB.			
3. Items identified in specifications such " <b>as shown</b> " and " <b>as indicated</b> " for <b>storage areas, borrow areas, temporary buildings, etc.</b> have been coordinated with drawings.			
4. <b>Specifications</b> are in conformance with the <b>basis of design and drawings</b> .			
5. <b>Project Information Form for 100% and Final Submittals</b> completed for use by Contracts Office (R110). Refer to PACNAVFACENGCOM A-E Guide, P-74, Section 8, "Specifications" for a sample copy.			

#### Section 01110, Summary of Work

1. <b>Contract completion time</b> is reasonable based on such items as long lead materials/equipment, location of project site, and size of project.			
2. <b>Construction categories</b> listed for MILCON projects.			
3. <b>Photograph requirements</b> discussed with ROICC or Activity and paragraph included/deleted as appropriate.			

#### Section 01450, Quality Control

1. <b>Administrative items</b> are identified as <b>Government approved</b> .			
2. U.S. registered fire protection engineer reviews <b>fire protection submittals</b> .			

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### Review Item

Yes \* No N/A

### Specifications

#### Section 01500, Temporary Facilities and Controls

1. <b>Availability of utility services</b> was discussed with activity/ROICC and paragraph edited as appropriate.			
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#### Section 01575, Temporary Environmental Controls

1. Requirements for <b>hazardous material</b> clearly identified.			
2. Coordinate handling of <b>environmentally troublesome areas</b> such as dewatering, shoreline protection, petroleum contaminated soil, and other items with cognizant environmental personnel.			
3. Latest <b>disposal requirements</b> for rubbish, debris, chemical waste and asbestos for <b>Guam projects</b> incorporated.			

#### Section 01580, Project Identification

1. <b>Project sign</b> included for MILCON projects.			
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#### Section 02220, Site Demolition

#### Section 13281, Engineering Control of Asbestos Containing Materials

#### Section 13283, Removal and Disposal of Lead-Containing Paint

1. <b>Coordinate disposition of hazardous items</b> such as asbestos, material containing lead, and lead paint with activity and cognizant personnel in safety and health areas. <b>Coordinate with Environmental section.</b>			
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#### Section 02301, Earthwork for Structures and Pavements

#### Section 02302, Excavation, Backfilling, and Compacting for Utilities

1. <b>Criteria for bidding</b> (hard material, mudrock, coral, etc.) is appropriate.			
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### Review Item

Yes \* No N/A

### Cost Engineering

1. <b>Signed statement</b> certifying <b>final estimate</b> is based on final drawings and specifications provided.			
2. <b>Quotes from suppliers and manufacturers</b> , with name, telephone number, and date, <b>for items greater than 10% of the construction cost estimates</b> provided.			
3. <b>Narrative on the factors and sources of cost data</b> used in developing the estimate provided.			
4. <b>Bid item costs</b> identified separately.			

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### Review Item

Yes \* No N/A

### Fire Protection

1. <b>An automatic sprinkler system of CO2 under floor. Flooding System</b> required and properly shown in each room.			
2. <b>Automatic/manual fire alarm system</b> requirements indicated.			
3. <b>Fire separation</b> requirements and <b>fixed walls</b> been considered.			
4. <b>Exits</b> adequate in number and properly spaced.			
5. <b>Water supplies</b> (quantity and pressure) adequate.			
6. <b>Fire access roads</b> adequate.			
7. <b>Pipes piercing fire walls</b> in wall sleeves are packed with proper materials between the pipe and sleeve space.			
8. <b>Attic or ceiling space</b> separators/draft stops, attic/false ceiling fire detection/sprinklers are provided.			

\*Note: Provide explanation for "No" responses.

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## **I. PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

Activity/Location: \_\_\_\_\_

Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

### 1. Preliminary Review

a. Compare <u>specifications and drawing index</u> to verify all drawing sheets are accounted for and subtitles are same.		
b. <u>Brief through the set of plans</u> (spending no more than one minute/sheet) to become familiar with the project.		

### 2. Civil Plan. Verify:

a. <u>Property line dimensions</u> on site plan against architectural.		
b. <u>Building</u> is located <u>behind setback lines</u> .		
c. <u>Existing and proposed grades</u> are shown and identified.		
d. <u>Limits of construction, clearing, grading, sodding, grass or mulch</u> are shown and are consistent with other disciplines.		
e. <u>Existing and new work</u> is clearly identified on site plan.		
f. <u>Utility lines</u> (underground power, telephone, water, sewer, gas, storm drain, fuel lines, grease traps and fuel tanks).		
g. <u>Existing utility lines</u> capable of handling new loads.		
h. <u>Existing power/telephone poles, pole guys, street signs, drainage inlets, valve boxes, manhole castings and other structures</u> do not interfere with new driveways, sidewalks, or other site improvements.		
i. <u>Fire hydrants and street light poles</u> do not conflict with other aboveground items.		
j. Profile sheets show other <u>underground utilities</u> and avoid conflicts.		
k. <u>Horizontal distances between drainage structures and manholes</u> match scaled dimensions and stated dimensions on both plan and profile sheets.		
l. Provisions have been included for <u>adjusting valve box and manhole castings</u> (sewer, power, telephone, drainage) to match final or finish grade of pavement, swales, or sidewalks.		

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Project Title: \_\_\_\_\_

Activity/Location: \_\_\_\_\_

Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

3. Structural Plan. Verify:

a. <u>Sections</u> are properly labeled.		
b. <u>Drawing notes</u> do not conflict with specifications.		
c. <u>Dimensions</u> match architectural.		
d. <u>Perimeter slab</u> matches with architectural.		
e. <u>Depressed or raised slabs</u> are indicated and it matches architectural.		
f. <u>Slab elevations</u> with civil and architectural.		
g. <u>Foundation piers</u> are identified and sized on schedule or plan.		
h. <u>Foundation beams</u> are identified and sized on schedule or plan.		
i. <u>Column lines</u> with architectural plan.		
j. <u>Column locations</u> are the same with architectural.		
k. <u>Column lines and columns</u> on roof framing plan with foundation plan.		
l. <u>Perimeter roof line</u> with architectural roof plan.		
m. <u>Columns, floor beams and roof beams</u> are listed in column and beam schedules.		
n. <u>Length of all columns</u> in column schedule. Match the length shown in section and the elevations shown on plans.		
o. <u>Expansion joint locations</u> with architectural.		

## **I. PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

Activity/Location: \_\_\_\_\_

Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

4. Architectural Plan. Verify:

a. <u>Existing and new work</u> is clearly identified on site plan.		
b. <u>Columns, bearing walls and overall building dimensions</u> match with structural.		
c. <u>Building elevations</u> with floor plans. Check in particular <u>roof lines</u> , <u>window and door openings</u> , and <u>expansion joints</u> .		
d. <u>Building sections</u> with elevations and plans. Check roof lines, windows and door openings, and expansion joints.		
e. <u>Building wall sections</u> with structural building sections.		
f. <u>Openings for windows and doors</u> match structural.		
g. <u>Expansion joints</u> are continuous throughout the building.		
h. <u>Large scale floor plans</u> with small scale floor plans.		
i. <u>Reflected ceiling plan</u> with architectural floor plan to ensure no variance with rooms. Check ceiling materials with finish schedule, check light fixture layout with electrical, check ceiling diffusers/registers with mechanical, check soffits and location of vents.		
j. <u>Room finish schedule</u> information including room numbers, names of rooms, finishes and ceiling heights. Look for omissions, duplications, and inconsistencies.		
k. <u>Door schedule</u> information including sizes, types, labels, etc. Look for omissions, duplications, and inconsistencies.		
l. <u>Fire rated walls</u> match with mechanical plans.		
m. <u>Cabinets</u> will fit.		
n. <u>Dimensions</u> .		

## **I. PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

Activity/Location: \_\_\_\_\_

Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

5. Mechanical and Plumbing Plan. Verify:

a. <u>Notes</u> are referenced and clearly stated.		
b. <u>Sections</u> are identical to architectural and structural.		
c. <u>New electrical, gas, water, sewer, and other utility lines</u> are connected to existing utility lines and the same type of lines.		
d. <u>Plumbing fixture locations</u> with architectural.		
e. <u>Plumbing fixtures</u> with fixture schedule and specs.		
f. <u>Storm drain system</u> with architectural roof plans.		
g. <u>Size of pipes</u> and that drains are connected.		
h. <u>Pipes</u> are sized sensibly and <u>drains</u> are connected and do not interfere with foundations.		
i. <u>Sanitary drainage pipe sizes and fixtures</u> are connected.		
j. <u>Wall chases</u> are provided on architectural to conceal vertical piping as intended.		
k. <u>HVAC floor plans</u> with architectural.		
l. <u>Sprinkler heads</u> are provided in all rooms.		
m. Adequate <u>ceiling height</u> exists at worst duct intersection or at largest beam.		
n. <u>Structural support</u> required for <u>mechanical equipment</u> are indicated on structural drawings.		
o. <u>Dampers</u> are indicated at smoke and fire walls.		
p. <u>Diffusers</u> with architectural reflected ceiling plan.		
q. <u>Roof penetration</u> (ducts, fans, and other utilities) are indicated on roof plans.		
r. <u>Ductwork</u> is sized.		

## **I. PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

Activity/Location: \_\_\_\_\_

Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

5. Mechanical and Plumbing Plan (cont'd). Verify:

s. <u>Air conditioning units, heaters, and exhaust fans</u> with architectural roof plans. Attention to occupancy of rooms below HVAC roof or ceiling mounted units.		
t. <u>Air conditioning units, heaters, and exhaust fans</u> with mechanical schedule.		
u. <u>Mechanical equipment</u> will fit in spaces allocated and there is room for maintenance (such as removing filters or tubes).		
v. <u>Horsepower ratings</u> for major pieces of equipment match on mechanical, electrical drawings and specifications.		

## **I. PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

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Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

6. Electrical Plan. Verify:

a. <u>Notes</u> are referenced and clearly stated.		
b. <u>Structural supports</u> are provided for <u>electrical equipment on roof</u> .		
c. <u>Electrical floor plans</u> are identical to architectural and mechanical. Check that the location of <u>floor mounted equipment</u> is consistent between disciplines.		
d. The location of <u>light fixtures</u> matches architectural and reflected ceiling plan and that light fixtures do not conflict with the structure or mechanical HVAC system.		
e. <u>Major pieces of equipment</u> have electrical connections and phases and voltages are consistent with other discipline schedules.		
f. Locations of <u>panel boards</u> are consistent with architectural, mechanical, and plumbing floor plans and the panel boards are indicated on the electrical riser diagram.		
g. Sufficient space for <u>electrical panels</u> to fit.		
h. <u>Electrical panels</u> are not recessed in fire rated walls.		
i. <u>Exterior electrical equipment</u> locations with site paving, grading, and landscaping plans.		
j. Locations of <u>electrical conduit runs, floor trenches, and openings</u> with structural plans.		
k. <u>Electrical controls</u> for mechanical equipment.		
l. <u>Existing communications lines</u> are suitable for control system use.		

7. Kitchen/Dietary Plan. Verify:

a. <u>Equipment layout</u> matches architectural plans.		
b. <u>Equipment</u> is connected to utility systems.		



## **I. PACNAVFACENGCOM REDICHECK COORDINATION REVIEW CHECKLIST**

Project Title: \_\_\_\_\_

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Reviewer's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Review Item

Chk

N/A

8. Specification Check. Verify:

a. <u>Sections</u> are indicated <u>in the index</u> .		
b. <u>Bid items</u> are explicitly stated and identified throughout the drawings.		
c. <u>Phasing of construction</u> is consistent with drawings.		
d. <u>Architectural finish schedule</u> with specification index.		
e. <u>Major items or equipment</u> with contract drawings.		
f. <u>Items specified "as indicated" or "where indicated"</u> are in fact indicated on contract drawings.		
g. <u>Thickness of materials and quantities of materials</u> with drawings.		

## PH-PACDIV-11012/4 (Rev. 4-97)

APPENDIX I